PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 121772	FOR FURTHER A	ACTION	See Form PCT/IPEA/416	
International application No. PCT/AU2005/000067	International filing 21 January 2005	date (day/month/year)	Priority date (day/month/year) 22 January 2004	
International Patent Classification	(IPC) or national classification	n and IPC		
Int. Cl.	•			
A61F 2/24 (2006.0	1)			
Applicant				
AUSTRALIAN SURGI	CAL DESIGN AND MANU	JEACTURE PTY LIM	ITTED et al	
1. This report is the international Authority under Article 35 and	preliminary examination report	rt, established by this Inte	ernational Preliminary Examining	
2. This REPORT consists of a to		_		
3. This report is also accompanie		Cover sneet.		
	and to the International Bureau	ula total of 6 sheets o	a fallows.	
			:	
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or table related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This report contains indications relating to the following items:				
X Box No. I Basis of	•			
Box No. II Priority		•	·	
X Box No. III Non-esta	ablishment of opinion with reg	ard to novelty, inventive	step and industrial applicability	
X Box No. IV Lack of	X Box No. IV Lack of unity of invention			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain	documents cited			
Box No. VII Certain	defects in the international app	lication .	·	
Box No. VIII Certain	Box No. VIII Certain observations on the international application			
Date of submission of the demand Date of completion of this report				
31 October 2005		15 February 2006		
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au		Authorized Officer D. M. DAVID MELHUIS Telephone No. (02) 62	·	

International application No. PCT/AU2005/000067

Bo	x No. I	Basis of	f the report	•
1.	With	regard to the la	nguage, this report is based on:	
	X	The internations	al application in the language in which it was filed	·
			f the international application into ished for the purposes of:	, which is the language of a
		internation	onal search (under Rules 12.3(a) and 23.1 (b))	-
		publication	on of the international application (under Rule 12.4(a))	
	•	internation	onal preliminary examination (Rules 55.2(a) and/or 55.3(a))	·
2.	furni	ished to the recei	ements of the international application, this report is based on (replacemiving Office in response to an invitation under Article 14 are referred to nexed to this report):	nent sheets which have been in this report as "originally
•		the international	l application as originally filed/furnished	
	X	the description:		
			pages $1-9$, $11-13$ as originally filed/furnished	
			pages* received by this Authority on with the letter of	•
			pages* 10 received by this Authority on 31 October 2005 with the	he letter of 31 October 2005
-	X	the claims:	·	
			pages as originally filed/furnished	
			pages* as amended (together with any statement) under Article 19	
			pages* received by this Authority on with the letter of	
		the drawings:	pages* 14-18 received by this Authority on 9 February 2006 with	th the letter of 9 February 2006
	لکا	die diawnigs.	Dagge 1/5 5/5	
••			pages $1/5 - 5/5$ as originally filed/furnished pages* received by this Authority on with the letter of	
•			pages* received by this Authority on with the letter of	
		a sequence listin	g and/or any related table(s) - see Supplemental Box Relating to Sequen	ice Listing.
3.		The amendments	s have resulted in the cancellation of:	
		the desc	cription, pages	
	••		ms, Nos.	
			wings, sheets/figs	
			uence listing (specify):	
				· · · · · · · · · · · · · · · · · · ·
4		ن	le(s) related to the sequence listing (specify): been established as if (some of) the amendments annexed to this report a	nd listed below had not been
••	1	made, since they 70.2(c)).	have been considered to go beyond the disclosure as filed, as indicated	in the Supplemental Box (Rule
		the desc	cription, pages	
		the clair	ms, Nos.	•
			vings, sheets/figs	
			ence listing (specify):	·
			e(s) related to the sequence listing (specify):	
			()	
•	If iter	m 4 applies, some	or all of those sheets may be marked "superseded."	
	<u>.</u>			

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of: the entire international application claims Nos: 23, 24, 25 (in part), 26 (in part) because: the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify): the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify): the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed (specify) no international search report has been established for said claim Nos. 23, 24, 25 (in part), 26 (in part) A meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit: Furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it. Furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it. Pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b) and 13ter.2. A meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Preliminary Examining Authority in a form and manner acceptable to it the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions. See Supplemental Box for further details.

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Box No.	IV	Lack of unity of invention
1.	In resp	ponse to the invitation to restrict or pay additional fees the applicant has, within the applicable time limit:
		restricted the claims
		paid additional fees
		paid additional fees under protest and, where applicable, the protest fee
		paid additional fees under protest but the applicable protest fee was not paid
		neither restricted the claims nor paid additional fees
2.		authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, invite the applicant to restrict or pay additional fees.
3. This	Authori	ty considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:
	compli	ed with.
X	not cor	nplied with for the following reasons:
	relate	ternational application does not comply with the requirements of unity of invention because it does not to one invention or to a group of inventions so linked as to form a single general inventive concept. In g to this conclusion the International Searching Authority has found that there are different inventions ows: Claims 1 to 22, 25 (in part), 26 (in part) directed to a heart valve comprising an annular body portion and a support ring, wherein the annular body portion is rotatable relative to the support ring. It is considered that the relative rotation between the body portion and the support ring comprises a first "special technical feature".
	2.	Claims 23, 24, 25 (in part), 26 (in part) directed to a heart valve comprising an annular body portion and a support ring, wherein the body portion is mounted to the support ring so as to be moveable from a sealed position to a position defining a second fluid pathway between the body portion and the support ring. It is considered that the second fluid pathway comprises a second special technical feature.
	relation	he abovementioned groups of claims do not share any of the technical features identified, a "technical aship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the tional application does not relate to one invention or to a single inventive concept, a priori.
	· ·	
l. Conse	quently,	this report has been established in respect of the following parts of the international application:
[all	parts.
	X the	parts relating to claims Nos. 1 – 22, 25 (in part), 26 (in part)

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Box No. V	Reasoned statement uncitations and explanation	nder Article 35(2) with regard to novelty, investors supporting such statement	entive step or industrial applicability;	
1. Statement				
No	velty (N)	Claims $1-22, 25, 26$	YES	
		Claims	NO .	
Inv	entive step (IS)	Claims 1 - 22, 25, 26	YES	
		Claims	NO	
Ind	ustrial applicability (IA)	Claims $1-22, 25, 26$	YES	
· · · · · · · · · · · · · · · · · · ·		Claims	NO	

2. Citations and explanations (Rule 70.7)

Claims 1 - 22, 25, 26:

Claims 1 to 22, 25 and 26 meet the requirements of PCT Articles 33(2) - (4). None of the prior art documents, or obvious combination thereof, disclose a valve assembly comprising an annular body and a support ring, wherein the annular body and the support ring are moveable relative to each other to open up a second fluid pathway through the valve assembly. The claims are therefore novel and inventive. The claims also have industrial applicability.